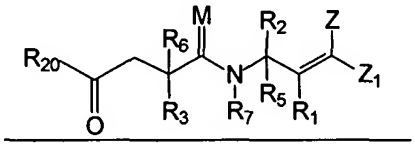
IN THE CLAIMS:

1-29. (Canceled).

30. (Currently Amended) A method of treating a mammalian disease condition mediated by picornaviral protease activity that comprises the step of administering to a mammal in need thereof a therapeutically effective amount of at least one compound ~~as defined in claim 1 or a pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof~~ of ~~the~~ formula (I):



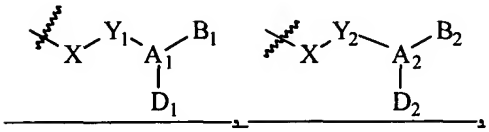
(I)

wherein

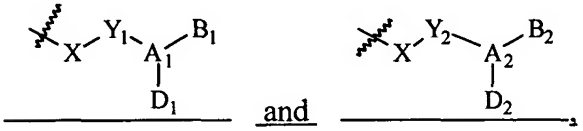
M is O or S;

R_1 is H, F, an alkyl group, OH, SH, or an O-alkyl group;

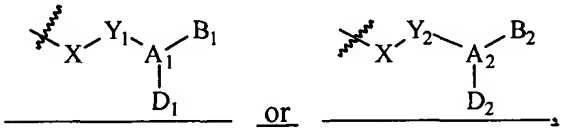
R_2 and R_5 are independently selected from H,



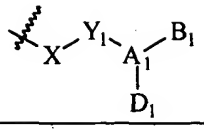
or an alkyl group, wherein said alkyl group is different from



with the proviso that at least one of R_2 or R_5 must be



and wherein, when R_2 or R_5 is



X is =CH or =CF and Y_1 is =CH or =CF,

or X and Y_1 together with Q' form a three-membered ring in which Q' is -$C(R_{10})(R_{11})$- or -O-, X is -CH- or -CF-, and Y_1 is -CH-, -CF-, or -C(alkyl)-, where R_{10} and R_{11} independently are H, a halogen, or an alkyl group, or, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group,

or X is -CH_2-, -CF_2-, -CHF-, or -S-, and Y_1 is -O-, -S-, -NR_{12}-, -$C(R_{13})(R_{14})$-, -C(O)-, -C(S)-, or -$C(CR_{13}R_{14})$-,

wherein R_{12} is H or alkyl, and R_{13} and R_{14} independently are H, F, or an alkyl group, or, together with the atoms to which they are bonded, form a cycloalkyl group or a heterocycloalkyl group;

A_1 is C, CH, CF, S, P, Se, N, NR_{15}, S(O), Se(O), P-OR_{15}, or P-$NR_{15}R_{16}$,

wherein R_{15} and R_{16} independently are an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are bonded, form a heterocycloalkyl group;

D_1 is a moiety with a lone pair of electrons capable of forming a hydrogen bond; and

B_1 is H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, -OR_{17}, -SR_{17}, -$NR_{17}R_{18}$, -$NR_{19}NR_{17}R_{18}$, or -$NR_{17}OR_{18}$,

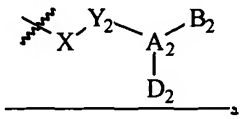
wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

and with the provisos that when D_1 is the moiety ≡N with a lone pair of electrons capable of forming a hydrogen bond, B_1 does not exist; and when A_1 is an sp^3 carbon, B_1 is not -

$NR_{17}R_{18}$ when D_1 is the moiety $-NR_{25}R_{26}$ with a lone pair of electrons capable of forming a hydrogen bond, wherein R_{25} and R_{26} are independently H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group;

and wherein D_1-A_1-B_1 optionally forms a nitro group where A_1 is N;

and further wherein, when R_2 or R_5 is



X is =CH or =CF and Y_2 is =C, =CH, or =CF,

or X and Y_2 together with Q' form a three-membered ring in which Q' is -$C(R_{10})(R_{11})$- or -O-, X is -CH- or -CF-, and Y_2 is -CH-, -CF-, or -C(alkyl)-, where R_{10} and R_{11} independently are H, a halogen, or an alkyl group, or, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group,

or X is $-CH_2$-, $-CF_2$-, -CHF-, or -S-, and Y_2 is -O-, -S-, $-N(R'_{12})$-, -C(O)-, -$C(R'_{13})(R'_{14})$-, -C(S)-, or $-C(CR'_{13}R'_{14})$-,

wherein R'_{12} is H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR'_{13}$, $-NR'_{13}R'_{14}$, $-C(O)-R'_{13}$, $-SO_2R'_{13}$, or $-C(S)R'_{13}$, and R'_{13} and R'_{14}, independently are H, F, or an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group;

A_2 is C, CH, CF, S, P, Se, N, NR_{15}, S(O), Se(O), P-OR_{15}, or P-$NR_{15}R_{16}$,

wherein R_{15} and R_{16} independently are an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are bonded, form a heterocycloalkyl group;

D_2 is a moiety with a lone pair of electrons capable of forming a hydrogen bond; and

B_2 is H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

and further wherein any combination of Y_2, A_2, B_2, and D_2 optionally can form a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group;

R_3 and R_6 are independently H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-C(O)R_{17}$, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

or, R_3 and R_6, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group;

R_7 is H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

or R_7, together with R_3 or R_6 and the atoms to which they are attached, forms a heterocycloalkyl group;

R_{20} is H, OH, or any suitable organic moiety; and

Z and Z_1 are independently H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-C(O)R_{21}$, $-CO_2R_{21}$, -CN, $-C(O)NR_{21}R_{22}$, $-C(O)NR_{21}OR_{22}$, $-C(S)R_{21}$, $-C(S)NR_{21}R_{22}$, $-NO_2$, $-SOR_{21}$, $-SO_2R_{21}$, $-SO_2NR_{21}R_{22}$, $-SO(NR_{21})(OR_{22})$, $-SONR_{21}$, $-SO_3R_{21}$, $-PO(OR_{21})_2$, $-PO(R_{21})(R_{22})$, $-PO(NR_{21}R_{22})(OR_{23})$,

$PO(NR_{21}R_{22})(NR_{23}R_{24})$, $-C(O)NR_{21}NR_{22}R_{23}$, or $-C(S)NR_{21}NR_{22}R_{23}$,

wherein R_{21}, R_{22}, R_{23}, and R_{24} are independently H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, an acyl group, or a thioacyl group, or wherein any two of R_{21}, R_{22}, R_{23}, and R_{24}, together with the atom(s) to which they are bonded, form a heterocycloalkyl group;

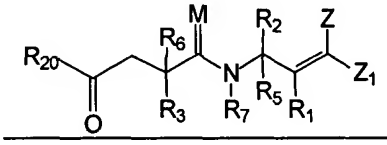
or Z_1, as defined above, together with R_1, as defined above, and the atoms to which Z_1 and R_1 are bonded, form a cycloalkyl or heterocycloalkyl group,

or Z and Z_1, both as defined above, together with the atoms to which they are bonded, form a cycloalkyl or heterocycloalkyl group;

or a pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof;

and wherein said compound, or pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof, has antipicornaviral activity with an EC_{50} less than or equal to 10 μM in the HI-HeLa cell culture assay.

31. (Currently amended) A method of inhibiting the activity of a picornaviral 3C protease that comprises the step of contacting the picornaviral 3C protease with an effective amount of at least one compound ~~as defined in claim 1 or a pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof~~ of the formula (I):



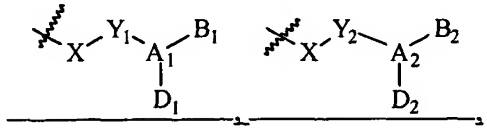
(I)

wherein

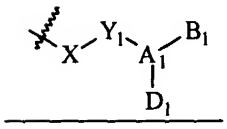
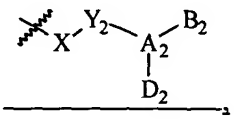
M is O or S;

R_1 is H, F, an alkyl group, OH, SH, or an O-alkyl group;

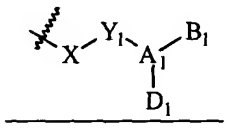
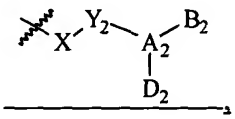
R_2 and R_5 are independently selected from H,



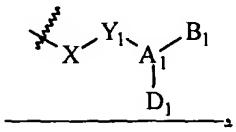
or an alkyl group, wherein said alkyl group is different from

 and  ,

with the proviso that at least one of R_2 or R_5 must be

 or  ,

and wherein, when R_2 or R_5 is

 ,

X is =CH or =CF and Y_1 is =CH or =CF,

or X and Y_1 together with Q' form a three-membered ring in which Q' is -$C(R_{10})(R_{11})$- or -O-, X is -CH- or -CF-, and Y_1 is -CH-, -CF-, or -C(alkyl)-, where R_{10} and R_{11} independently are H, a halogen, or an alkyl group, or, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group,

or X is -CH_2-, -CF_2-, -CHF-, or -S-, and Y_1 is -O-, -S-, -NR_{12}-, -$C(R_{13})(R_{14})$-, -C(O)-, -C(S)-, or -$C(CR_{13}R_{14})$-,

wherein R_{12} is H or alkyl, and R_{13} and R_{14} independently are H, F, or an alkyl group, or, together with the atoms to which they are bonded, form a cycloalkyl group or a heterocycloalkyl group;

A_1 is C, CH, CF, S, P, Se, N, NR_{15}, S(O), Se(O), P-OR_{15}, or P-$NR_{15}R_{16}$,

wherein R_{15} and R_{16} independently are an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are bonded, form a heterocycloalkyl group;

D_1 is a moiety with a lone pair of electrons capable of forming a hydrogen bond;

and

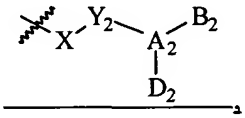
B_1 is H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

and with the provisos that when D_1 is the moiety $\equiv N$ with a lone pair of electrons capable of forming a hydrogen bond, B_1 does not exist; and when A_1 is an sp^3 carbon, B_1 is not $-NR_{17}R_{18}$ when D_1 is the moiety $-NR_{25}R_{26}$ with a lone pair of electrons capable of forming a hydrogen bond, wherein R_{25} and R_{26} are independently H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group;

and wherein D_1-A_1-B_1 optionally forms a nitro group where A_1 is N;

and further wherein, when R_2 or R_5 is



,

X is =CH or =CF and Y_2 is =C, =CH, or =CF,

or X and Y_2 together with Q' form a three-membered ring in which Q' is $-C(R_{10})(R_{11})-$ or -O-, X is -CH- or -CF-, and Y_2 is -CH-, -CF-, or -C(alkyl)-, where R_{10} and R_{11} independently are H, a halogen, or an alkyl group, or, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group,

or X is $-CH_2-$, $-CF_2-$, -CHF-, or -S-, and Y_2 is -O-, -S-, $-N(R'_{12})-$, -C(O)-, $-C(R'_{13})(R'_{14})-$, -C(S)-, or $-C(CR'_{13}R'_{14})-$,

wherein R'_{12} is H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR'_{13}$, $-NR'_{13}R'_{14}$, $-C(O)-R'_{13}$, $-SO_2R'_{13}$, or $-C(S)R'_{13}$, and R'_{13} and R'_{14},

independently are H, F, or an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group;

A_2 is C, CH, CF, S, P, Se, N, NR_{15}, S(O), Se(O), P-OR_{15}, or P-$NR_{15}R_{16}$,

wherein R_{15} and R_{16} independently are an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are bonded, form a heterocycloalkyl group;

D_2 is a moiety with a lone pair of electrons capable of forming a hydrogen bond; and

B_2 is H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, -OR_{17}, -SR_{17}, -$NR_{17}R_{18}$, -$NR_{19}NR_{17}R_{18}$, or -$NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

and further wherein any combination of Y_2, A_2, B_2, and D_2 optionally can form a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group;

R_3 and R_6 are independently H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, -$C(O)R_{17}$, -OR_{17}, -SR_{17}, -$NR_{17}R_{18}$, -$NR_{19}NR_{17}R_{18}$, or -$NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

or, R_3 and R_6, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group;

R_7 is H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, -OR_{17}, -SR_{17}, -$NR_{17}R_{18}$, -$NR_{19}NR_{17}R_{18}$, or -$NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a

heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

or R_7, together with R_3 or R_6 and the atoms to which they are attached, forms a heterocycloalkyl group;

R_{20} is H, OH, or any suitable organic moiety; and

Z and Z_1 are independently H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-C(O)R_{21}$, $-CO_2R_{21}$, -CN, $-C(O)NR_{21}R_{22}$, $-C(O)NR_{21}OR_{22}$, $-C(S)R_{21}$, $-C(S)NR_{21}R_{22}$, $-NO_2$, $-SOR_{21}$, $-SO_2R_{21}$, $-SO_2NR_{21}R_{22}$, $-SO(NR_{21})(OR_{22})$, $-SONR_{21}$, $-SO_3R_{21}$, $-PO(OR_{21})_2$, $-PO(R_{21})(R_{22})$, $-PO(NR_{21}R_{22})(OR_{23})$, $PO(NR_{21}R_{22})(NR_{23}R_{24})$, $-C(O)NR_{21}NR_{22}R_{23}$, or $-C(S)NR_{21}NR_{22}R_{23}$,

wherein R_{21}, R_{22}, R_{23}, and R_{24} are independently H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, an acyl group, or a thioacyl group, or wherein any two of R_{21}, R_{22}, R_{23}, and R_{24}, together with the atom(s) to which they are bonded, form a heterocycloalkyl group;

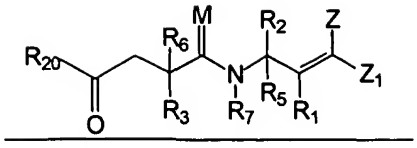
or Z_1, as defined above, together with R_1, as defined above, and the atoms to which Z_1 and R_1 are bonded, form a cycloalkyl or heterocycloalkyl group,

or Z and Z_1, both as defined above, together with the atoms to which they are bonded, form a cycloalkyl or heterocycloalkyl group;

or a pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof;

and wherein said compound, or pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof, has antipicornaviral activity with an EC_{50} less than or equal to 10 μM in the HI-HeLa cell culture assay.

32. (Currently Amended) A method of inhibiting the activity of a rhinoviral protease that comprises the step of contacting the rhinoviral protease with an effective amount of at least one compound ~~as defined in claim 1 or a pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof~~ of the formula (I):



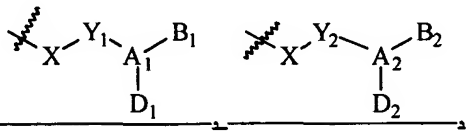
(I)

wherein

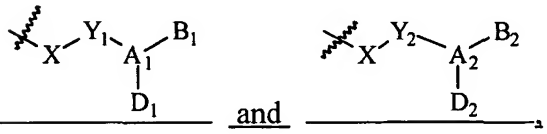
M is O or S;

R_1 is H, F, an alkyl group, OH, SH, or an O-alkyl group;

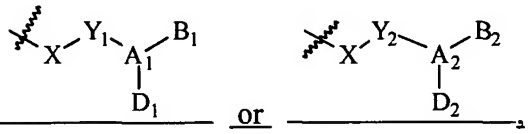
R_2 and R_5 are independently selected from H,



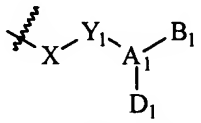
or an alkyl group, wherein said alkyl group is different from



with the proviso that at least one of R_2 or R_5 must be



and wherein, when R_2 or R_5 is



X is =CH or =CF and Y_1 is =CH or =CF,

or X and Y_1 together with Q' form a three-membered ring in which Q' is -$C(R_{10})(R_{11})$- or -O-, X is -CH- or -CF-, and Y_1 is -CH-, -CF-, or -C(alkyl)-, where R_{10} and R_{11} independently are H, a halogen, or an alkyl group, or, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group,

or X is $-CH_2-$, $-CF_2-$, -CHF-, or -S-, and Y_1 is -O-, -S-, $-NR_{12}-$, $-C(R_{13})(R_{14})-$, -C(O)-, -C(S)-, or $-C(CR_{13}R_{14})-$,

wherein R_{12} is H or alkyl, and R_{13} and R_{14} independently are H, F, or an alkyl group, or, together with the atoms to which they are bonded, form a cycloalkyl group or a heterocycloalkyl group;

A_1 is C, CH, CF, S, P, Se, N, NR_{15}, S(O), Se(O), $P\text{-}OR_{15}$, or $P\text{-}NR_{15}R_{16}$,

wherein R_{15} and R_{16} independently are an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are bonded, form a heterocycloalkyl group;

D_1 is a moiety with a lone pair of electrons capable of forming a hydrogen bond; and

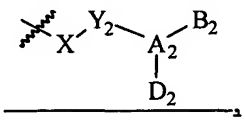
B_1 is H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

and with the provisos that when D_1 is the moiety ≡N with a lone pair of electrons capable of forming a hydrogen bond, B_1 does not exist; and when A_1 is an sp^3 carbon, B_1 is not $-NR_{17}R_{18}$ when D_1 is the moiety $-NR_{25}R_{26}$ with a lone pair of electrons capable of forming a hydrogen bond, wherein R_{25} and R_{26} are independently H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group;

and wherein D_1-A_1-B_1 optionally forms a nitro group where A_1 is N;

and further wherein, when R_2 or R_5 is



X is =CH or =CF and Y_2 is =C, =CH, or =CF,

or X and Y_2 together with Q' form a three-membered ring in which Q' is -$C(R_{10})(R_{11})$- or -O-, X is -CH- or -CF-, and Y_2 is -CH-, -CF-, or -C(alkyl)-, where R_{10} and R_{11} independently are H, a halogen, or an alkyl group, or, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group,

or X is -CH_2-, -CF_2-, -CHF-, or -S-, and Y_2 is -O-, -S-, -$N(R'_{12})$-, -C(O)-, -$C(R'_{13})(R'_{14})$-, -C(S)-, or -$C(CR'_{13}R'_{14})$-,

wherein R'_{12} is H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, -OR'_{13}, -$NR'_{13}R'_{14}$, -C(O)-R'_{13}, -$SO_2R'_{13}$, or -C(S)R'_{13}, and R'_{13} and R'_{14} independently are H, F, or an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group;

A_2 is C, CH, CF, S, P, Se, N, NR_{15}, S(O), Se(O), P-OR_{15}, or P-$NR_{15}R_{16}$,

wherein R_{15} and R_{16} independently are an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group, or, together with the atom to which they are bonded, form a heterocycloalkyl group;

D_2 is a moiety with a lone pair of electrons capable of forming a hydrogen bond; and

B_2 is H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, -OR_{17}, -SR_{17}, -$NR_{17}R_{18}$, -$NR_{19}NR_{17}R_{18}$, or -$NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

and further wherein any combination of Y_2, A_2, B_2, and D_2 optionally can form a cycloalkyl group, a heterocycloalkyl group, an aryl group, or a heteroaryl group;

R_3 and R_6 are independently H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-C(O)R_{17}$, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

or, R_3 and R_6, together with the carbon atom to which they are attached, form a cycloalkyl group or a heterocycloalkyl group;

R_7 is H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-OR_{17}$, $-SR_{17}$, $-NR_{17}R_{18}$, $-NR_{19}NR_{17}R_{18}$, or $-NR_{17}OR_{18}$,

wherein R_{17}, R_{18}, and R_{19} independently are H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an acyl group;

or R_7, together with R_3 or R_6 and the atoms to which they are attached, forms a heterocycloalkyl group;

R_{20} is H, OH, or any suitable organic moiety; and

Z and Z_1 are independently H, F, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, $-C(O)R_{21}$, $-CO_2R_{21}$, -CN, $-C(O)NR_{21}R_{22}$, $-C(O)NR_{21}OR_{22}$, $-C(S)R_{21}$, $-C(S)NR_{21}R_{22}$, $-NO_2$, $-SOR_{21}$, $-SO_2R_{21}$, $-SO_2NR_{21}R_{22}$, $-SO(NR_{21})(OR_{22})$, $-SONR_{21}$, $-SO_3R_{21}$, $-PO(OR_{21})_2$, $-PO(R_{21})(R_{22})$, $-PO(NR_{21}R_{22})(OR_{23})$, $PO(NR_{21}R_{22})(NR_{23}R_{24})$, $-C(O)NR_{21}NR_{22}R_{23}$, or $-C(S)NR_{21}NR_{22}R_{23}$,

wherein R_{21}, R_{22}, R_{23}, and R_{24} are independently H, an alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, an acyl group, or a thioacyl group, or wherein any two of R_{21}, R_{22}, R_{23}, and R_{24}, together with the atom(s) to which they are bonded, form a heterocycloalkyl group;

or Z_1, as defined above, together with R_1, as defined above, and the atoms to which Z_1 and R_1 are bonded, form a cycloalkyl or heterocycloalkyl group,

or Z and Z_1, both as defined above, together with the atoms to which they are bonded, form a cycloalkyl or heterocycloalkyl group;

or a pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof;

and wherein said compound, or pharmaceutically acceptable prodrug, salt, active metabolite, or solvate thereof, has antipicornaviral activity with an EC_{50} less than or equal to 10 μM in the HI-HeLa cell culture assay.

33-34. (Canceled).